



TEL-TRU MANUFACTURING COMPANY PRESSURE TRANSMITTERS



World-Class Instruments Since 1916

www.teltru.com



Tel-Tru Manufacturing Company

408 St. Paul St., Rochester, New York 14605 USA

Phone: 585-232-1440 • 800-232-5335 • Fax: 585-232-3857 • E-mail: info@teltru.com • Web: www.teltru.com

Tel-Tru Pressure Transmitters are offered in a compact all welded stainless steel housing with a variety of available connections for the pressure port and electrical connections for output signal transmission.

- The type of pressure transducer or sensor used is appropriate to the application and accuracy requirement.
- Electronics within the housing amplify and condition the changing transducer signal to an industry standard output signal, which is transmitted to a receiver device such as a readout, recorder, data logger or controller.

Applications for Pressure Transmitters:

- Industrial Lab and Test Equipment
- Machine Control
- Oil and Gas Industry
- Liquid Level
- Sanitary Processing
- Food and Beverage Processing
- OEM Equipment
- Hydraulics and Pneumatics
- Petrochemical
- Specialty Processing
- Pharmaceuticals
- Waste Water Treatment

Selecting a pressure transmitter

Application and environmental conditions affect transmitter selection:

Type of service:

- Oil/gas
- Process
- Power plant general machinery
- OEM
- Waste water, etc.

Fluid conditions

- Static
- Varying pressure
- Pulsation
- Min/max temperatures
- Type of fluid
 - Sour gas
 - Water
 - Steam
 - Sludge, etc.

Options are shown on the chart inside—for proper selection consider:

Output

- Requirements of receiving equipment
- Supply voltage available
- Distance signal will travel

Accuracy

- Application need
- Cost

Pressure range

- Pressure limits of application
- Scaling of output signal—best when 50% to 80% of operating range is within mid-scale

Process connection

- Application requirements
- Pressure in system
- Media type being measured

Electrical connection

- Plant standards
- Application requirements

Tel-Tru Industrial Grade Units:

- Sensor is thick film strain gauge, on ceramic diaphragm
- $\pm .25\%$ accuracy
- Ranges From 30" Hg-0 psi to 0-9,000 psi
- CE compliant
- Intrinsically Safe models available with FM and CSA approval
- User selectable modular design
- Zero adjustment standard $\pm 10\%$ of range

Tel-Tru Precision Grade Units:

- Thin film sensor bonded to welded stainless steel diaphragm
- $\pm .25\%$ accuracy standard; $\pm .10\%$ available for some models
- Ultra high pressure up to 100,000 psi
- CE compliant
- Non-filled (dry) design and construction of Flush Diaphragm units for rugged service
- Intrinsically Safe approval pending for some models
- User selectable modular design
- Customization available
- NIST traceable certificate standard (except P131)

The **CE** mark on Tel-Tru Pressure Transmitters indicates they are in compliance with European Standards, incorporating components designed to protect the device from and neutralize the effects of Radio Frequency Interference (RFI), Electromagnetic Interference (EMI), and Electrostatic Discharge (ESD). This "electrical noise" comes from walkie-talkies (RFI), AC motors used in the vicinity of the transmitter installation (EMI), or from sources within the transmitter itself (ESD).

See www.teltru.com for detailed specifications and indepth product information.

PRESSURE TRANSMITTERS

Tel-Tru pressure transmitters are accurate, robust, and built for long life; even in the harshest environments. Configure for your application with user selected modular design.

STANDARD MODELS > Intrinsically Safe Models >

APPLICATIONS >

STANDARD SPECIFICATIONS >

Proof Pressure:

Burst Pressure:

Response Time:

Wetted Materials:

Protection Class:

Temperature Performance:

- Operating Temperature Range (OTR)
- Compensated Temperature Range (CTR)
- Temperature Effect on Zero over the CTR
- Temperature Effect on Span over the CTR

Zero and Span Balance:

Long-Term Stability:

Insulation Resistance:

Tel-Tru Pressure Transmitters—

Accurate, Robust, and Built to Last!




OTHER OPTIONS:

Ranges, process and electrical connections, and options are available upon request.

Please visit

www.teltru.com

for complete specifications and product information.

THREADED 100 SERIES					
Industrial Grade Threaded		Precision Grade Threaded		Precision Grade Threaded OEM	
					
P111 P112		P121 -		P131 -	
<ul style="list-style-type: none"> • Hydraulics and Pneumatics • Industrial Process • Laboratory and Test Equipment • Marine and Offshore • Pump and Compressors 		<ul style="list-style-type: none"> • Hydraulics and Pneumatics • Injection Molding Machines • Laboratory and Test Equipment • Marine and Offshore • Petrochemical • Pump and Compressors 		<ul style="list-style-type: none"> • Brake Test Equipment • Hydraulics and Pneumatics • Marine and Offshore • Off Highway Equipment • Petrochemical • Pump and Compressors 	
STANDARD SPECIFICATIONS (see www.teltru.com for non-standard specs):					
1.3X FS thru 5X FS		2X FS		2X FS	
1.7X FS thru 10X FS		5X FS		5X FS	
<3 ms		<5 ms		<5 ms	
Ceramic and 316L SS		316 and 15-5 SS		316 and 15-5 SS	
IP65		NEMA 4X		NEMA 4X	
-13 to 212°F (-25 to 100°C)		-40 to 200°F (-40 to 93.3°C)		-40 to 200°F (-40 to 93.3°C)	
14 to 131°F (-10 to 55°C)		0 to 170°F (-17.8 to 76.7°C)		0 to 170°F (-17.8 to 76.7°C)	
±0.014% FS/°F		±0.015% FS/°F		±0.02% FS/°F	
(±0.025% FS/°C)		(±0.027% FS/°C)		(±0.036% FS/°C)	
±0.008% FS/°F		±0.015% FS/°F		±0.02% FS/°F	
(±0.015% FS/°C)		(±0.027% FS/°C)		(±0.036% FS/°C)	
±0.5% FSO		±1.0% FSO		±1.0% FSO	
±0.5% FSO/year		±0.25% FSO/year		±0.50% FSO/year	
100 M-ohms @ 250 Vdc		1000 M-ohms @ 50 Vdc		1000 M-ohms @ 50 Vdc	
OUTPUTS	SUPPLY	CODE	OUTPUTS	SUPPLY	CODE
4-20 mA (2-wire)	11-40 Vdc	A	4-20 mA (2-wire)	8-38 Vdc	A
0-20 mA	8-40 Vdc	D	0-5 Vdc (3-wire)	8-38 Vdc	B
1-5 Vdc	11-40 Vdc	G	1-2 mV/V (4-wire)	2-15 Vdc	C
0-10 Vdc	14-40 Vdc	K	1-10 Vdc output	16-38 Vdc	M
ACCURACY	CODE	ACCURACY	CODE	ACCURACY	CODE
0.25%	3	0.25%	3	0.50%	2
		0.10%	6		
PRESSURE RANGES		PRESSURE RANGES		PRESSURE RANGES	
-30" Hg -0 psi thru 0-9,000 psi		-30" Hg -0 psi thru 0-15,000 psi		0-15 psi thru 0-15,000 psi	
MODE	CODE	MODE	CODE	MODE	CODE
Gage Pressure Ref.	G	Gage Pressure Ref.	G	Gage Pressure Ref.	G
Absolute Pressure Ref.	A	Absolute Pressure Ref.	A		
Vacuum Range	V	Vacuum Range	V		
Compound Range	C	Compound Range	C		
PROCESS CONN.		PROCESS CONN.		PROCESS CONN.	
1/4" NPT (M)	01	1/4" NPT (M)	01	1/4" NPT (M)	01
1/2" NPT (M)	03	1/4" NPT (F)	02	7/16-20 UNF (M)	07
G1/2 (M)	37	1/2" NPT (M)	03		
G1/4 (M)	47	1/8" NPT (M)	05		
		1/8" NPT (F)	06		
		7/16-20 UNF (M)	07		
ELECTRICAL CONN.		ELECTRICAL CONN.		ELECTRICAL CONN.	
DIN 43650 conn. w/mate	D200	X' wire pigtail (NEMA 4X)	A4XX	X' wire pigtail (NEMA 4X)	A4XX
Mini DIN 43650C conn. w/mate	D100	1/2" NPT (M) conduit w/X' wire	A6XX	Mini DIN 43650C conn. w/mate	D100
1/2" NPT (M) conduit w/X'	C4XX	Bendix 4-pin connector	B100		
X' wire w/PG7 cable gland	C3XX	Bendix 6-pin connector	B200		
6 pin HE 302 (Bendix)	F100	Mini DIN 43650C conn. w/mate	D100		
4 pin M12 (Lumberg)	F200				
SENSOR SEALS					
NBR (Buna-N)	C4				
CR (Neoprene)	C5				
EPDM	C6				
Vitron	C7				
Minimum order quantity 10 pieces					



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STANDARD MODELS >
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STANDARD SPECIFICATIONS >

- Proof Pressure:
Burst Pressure:
Response Time:
Wetted Materials:
Protection Class:
Temperature Performance:
- Operating Temperature Range (OTR)
 - Compensated Temperature Range (CTR)
 - Temperature Effect on Zero over the CTR
 - Temperature Effect on Span over the CTR




Zero and Span Balance:
Long-Term Stability:
Insulation Resistance:

**Tel-Tru
Pressure
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OTHER OPTIONS:
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THREADED 100 SERIES					
Precision Grade Rugged		Precision Grade Mid-High Pressure		Precision Grade Ultra High Pressure	
					
P141		P151		P161	
<ul style="list-style-type: none"> • Hydraulics and Pneumatics • Laboratory and Test Equipment • Marine and Offshore • Petrochemical • Pump and Compressors 		<ul style="list-style-type: none"> • High Pressure Cutting Systems • Industrial Process Control • Laboratory and Test Equipment • Stamping Presses 		<ul style="list-style-type: none"> • High Pressure Cutting Systems • Industrial Process Control • Laboratory and Test Equipment • Stamping Presses 	
STANDARD SPECIFICATIONS (see www.teltru.com for non-standard specs):					
2X FS		2X FS (75 kpsi max)		2X FS (160 kpsi max)	
5X FS		3X FS (90 kpsi max)		5X FS (180 kpsi max)	
<5 ms		<5 ms		<5 ms	
316 and 15-5 SS		15-5 SS		15-5 SS	
NEMA 4X		NEMA 4X		NEMA 4X	
-40 to 200°F (-40 to 93.3°C)		-40 to 200°F (-40 to 93.3°C)		-40 to 200°F (-40 to 93.3°C)	
0 to 170°F (-17.8 to 76.7°C)		0 to 170°F (-17.8 to 76.7°C)		0 to 170°F (-17.8 to 76.7°C)	
±0.015% FS/°F		±0.015% FS/°F		±0.015% FS/°F	
(±0.027% FS/°C)		(±0.027% FS/°C)		(±0.027% FS/°C)	
±0.015% FS/°F		±0.015% FS/°F		±0.015% FS/°F	
(±0.027% FS/°C)		(±0.027% FS/°C)		(±0.027% FS/°C)	
±1.0% FSO		±1.0% FSO		±1.0% FSO	
±0.25% FSO/year		±0.25% FSO/year		±0.25% FSO/year	
1000 M-ohms @ 50 Vdc		1000 M-ohms @ 50 Vdc		1000 M-ohms @ 50 Vdc	
OUTPUTS	SUPPLY CODE	OUTPUTS	SUPPLY CODE	OUTPUTS	SUPPLY CODE
4-20 mA (2-wire)	8-38 Vdc A	4-20 mA (2-wire)	8-38 Vdc A	4-20 mA (2-wire)	8-38 Vdc A
0-5 Vdc (3-wire)	8-38 Vdc B	0-5 Vdc (3-wire)	8-38 Vdc B	0-5 Vdc (3-wire)	8-38 Vdc B
1-2 mV/V (4-wire)	16-38 Vdc C	1-2 mV/V (4-wire)	2-15 Vdc C	1-2 mV/V (4-wire)	2-15 Vdc C
		1-10 Vdc output	16-38 Vdc K	1-10 Vdc output	16-38 Vdc K
ACCURACY	CODE	ACCURACY	CODE	ACCURACY	CODE
0.25%	3	0.50%	2	0.50%	2
0.10%	6	0.25%	3	0.25%	3
		0.10%	6	0.10%	6
PRESSURE RANGES		PRESSURE RANGES		PRESSURE RANGES	
-30" Hg -0 psi thru 0-15,000 psi		0-15,000 psi thru 0-60,000 psi		0-25,000 psi thru 0-100,000 psi	
MODE	CODE	MODE	CODE	MODE	CODE
Gage Pressure Ref.	G	Gage Pressure Ref.	G	Gage Pressure Ref.	G
Absolute Pressure Ref.	A				
Vacuum Range	V				
Compound Range	C				
PROCESS CONN.		PROCESS CONN.		PROCESS CONN.	
1/4" NPT (F)	02	F-250-C (use ≤ 60,000 psi)	11	F-250-C (use ≤ 60,000 psi)	11
1/4" NPT (M)	01	F-312-C (use > 60,000 psi)	13	F-312-C (use > 60,000 psi)	13
7/16-20 UNF (M)	07				
Autoclave F-250-C	11				
1/4" - 28 UNF (M)	57				
1/4" - 28 UNF (F)	58				
ELECTRICAL CONN.		ELECTRICAL CONN.		ELECTRICAL CONN.	
X' wire pigtail (NEMA 4X)	A4XX	X' wire pigtail (NEMA 4X)	A4XX	X' wire pigtail (NEMA 4X)	A4XX
1/2" NPT (M) conduit w/X' wire	A6XX	1/2" NPT (M) conduit w/X' wire	A6XX	1/2" NPT (M) conduit w/X' wire	A6XX
Bendix 4-pin connector	B100	Bendix 4-pin connector	B100	Bendix 4-pin connector	B100
Bendix 6-pin connector	B200	Bendix 6-pin connector	B200	Bendix 6-pin connector	B200
Mini DIN 43650C conn. w/mate	D100	Mini DIN 43650C conn. w/mate	D100	Mini DIN 43650C conn. w/mate	D100
DIN 43650 conn. w/mate	D200	DIN 43650 conn. w/mate	D200	DIN 43650 conn. w/mate	D200

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OTHER OPTIONS - Ranges, process and electrical connections, and options are available upon request. Please visit www.teltru.com for complete specifications and product information.

STANDARD MODELS ▶
Intrinsically Safe Models ▶

APPLICATIONS ▶

STANDARD SPECIFICATIONS ▶

Proof Pressure:

Burst Pressure:

Response Time:

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Protection Class:

Temperature Performance:

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Zero and Span Balance:

Long-Term Stability:

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FLUSH 200 SERIES			SANITARY 300 SERIES		
Industrial Grade Flush Diaphragm		Precision Grade Flush Diaphragm		Industrial Grade Sanitary	
					
P211 P212		P221 -		P311 P312	
<ul style="list-style-type: none"> • Industrial Process Control • Laboratory and Test Equipment • Coating Machinery • Paint Systems • Sealant Systems 		<ul style="list-style-type: none"> • Adhesives and Plastics • Coating Machinery • Paint Systems • Sealant Systems • Slurries • Non-Filled Flush Diaphragm Process Connection 		<ul style="list-style-type: none"> • Brewers • Dairy • Food and Beverage Processing • Pharmaceutical 	
STANDARD SPECIFICATIONS (see www.teltru.com for non-standard specs):					
1.3X FS thru 2X FS		2X FS		1.3X FS thru 4X FS	
1.7X FS thru 3.8X FS		5X FS (15 kpsi max)		1.7X FS thru 8X FS	
<3 ms		<3 ms		<3 ms	
316L SS		15-5 SS		316L SS	
IP65		NEMA 4X		IP65	
-5 to 185°F (-15 to 85°C)		-40 to 200°F (-40 to 93.3°C)		-5 to 185°F (-15 to 85°C)	
14 to 131°F (-10 to 55°C)		0 to 170°F (-17.8 to 76.7°C)		14 to 131°F (-10 to 55°C)	
±0.014% FS/°F		±0.015% FS/°F		±0.022% FS/°F	
(±0.025% FS/°C)		(±0.027% FS/°C)		(±0.04% FS/°C)	
±0.008% FS/°F		±0.015% FS/°F		±0.008% FS/°C	
(±0.015% FS/°C)		(±0.027% FS/°C)		(±0.015% FS/°C)	
±0.5% FSO		±1.0% FSO		±0.5% FSO	
±0.5% FSO/year		±0.25% FSO/year		±0.5% FSO/year	
100 M-ohms @ 250 Vdc		1000 M-ohms @ 50 Vdc		100 M-ohms @ 250 Vdc+	
OUTPUTS	SUPPLY	CODE	OUTPUTS	SUPPLY	CODE
4-20 mA (2-wire)	11-40 Vdc	A	4-20 mA (2-wire)	8-38 Vdc	A
0-20 mA	8-40 Vdc	D	0-5 Vdc (3-wire)	8-38 Vdc	B
1-5 Vdc output	11-40 Vdc	G	1-2 mV/V (4-wire)	2-15 Vdc	C
0-10 Vdc output	14-40 Vdc	K	0-10 Vdc output	16-38 Vdc	K
ACCURACY	CODE		ACCURACY	CODE	
0.25%	3		0.50%	2	
			0.25%	3	
PRESSURE RANGES			PRESSURE RANGES		
-30" Hg -15 psi thru 0-9,000 psi			0-100 psi thru 0-7,500 psi		
MODE	CODE		MODE	CODE	
Gage Pressure Ref.	G		Gage Pressure Ref.	G	
Absolute Pressure Ref.	A		Absolute Pressure Ref.	A	
Compound Range	C		Vacuum Range	V	
			Compound Range	C	
PROCESS CONN.	CODE		PROCESS CONN.	CODE	
G1/2 Flush Diaph w/1 o-ring NBR	**38		3/4-16 UNF (M) Flush Diaph w/o-ring	17	
G1/2 Flush Diaph w/2 o-ring NBR	**39		BSP 1/2" (M) G1/2	57	
G3/4 Flush Diaph w/1 o-ring NBR	**41				
G3/4 Flush Diaph w/2 o-ring NBR	**42				
G1 Flush Diaph w/1 o-ring NBR	**44				
1/2" NPT (M) Flush Diaphragm without o-ring	46				
ELECTRICAL CONN.	CODE		ELECTRICAL CONN.	CODE	
DIN 43650 conn. w/mate	D200		X' wire pigtail (NEMA 4X)	A4XX	
Mini DIN 43650C conn. w/mate	D100		1/2" NPT (M) conduit w/X' wire	A6XX	
1/2" NPT (M) conduit w/X' wire	C4XX		Bendix 4-pin connector	B100	
X' wire w/PG7 cable gland	C3XX		Bendix 6-pin connector	B200	
6 pin HE 302 (Bendix)	F100		Mini DIN 43650C conn. w/mate	D100	
4 pin M12 (Lumberg)	F200				
			OUTPUTS	SUPPLY	CODE
			4-20 mA (2-wire)	11-40 Vdc	A
			0-20 mA	8-40 Vdc	D
			1-5 Vdc output	11-40 Vdc	G
			0-10 Vdc output	14-40 Vdc	K
			ACCURACY	CODE	
			0.25%	3	
			PRESSURE RANGES		
			-30" Hg -0 psi thru 0-600 psi		
			MODE	CODE	
			Gage Pressure Ref.	G	
			Absolute Pressure Ref.	A	
			Vacuum Range	V	
			Compound Range	C	
			PROCESS CONN.	CODE	
			2" Tri-Clamp (316L SS)	28	
			1" Tri-Clamp (316L SS)	26	
			1-1/2" Tri-Clamp (316L SS)	27	
			ELECTRICAL CONN.	CODE	
			DIN 43650 conn. w/mate	D200	
			Mini DIN 43650C conn. w/mate	D100	
			1/2" NPT (M) conduit w/X' wire	C4XX	
			X' wire w/PG7 cable gland	C3XX	
			6 pin HE 302 (Bendix)	F100	
			4 pin M12 (Lumberg)	F200	

** Alternate "O"-ring materials available



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SANITARY 300 SERIES			SUBMERSIBLE 400 SERIES					
Precision Grade Sanitary 			Industrial Submersible 			Precision Grade Submersible 		
P321 -			P411 P412			P421 -		
<ul style="list-style-type: none"> • Biotech • Cosmetics • Dairy • Food and Beverage Processing • Pharmaceutical 			<ul style="list-style-type: none"> • Irrigation • Level and Depth Measurement • Underground Storage • Water Resource • Well Water 			<ul style="list-style-type: none"> • Heavy Slurries • Hydro Electric • Level and Depth Measurement • Waste Water Treatment 		
STANDARD SPECIFICATIONS (see www.teltru.com for non-standard specs):								
2X FS			1.6X FS thru 4X FS			2X FS		
5X FS (5 kpsi max)			2.8X FS thru 8X FS			5X FS		
<5 ms			<3 ms			<5 ms		
316L SS			Ceramic and 316L SS			316L SS		
NEMA 4X			IP68			IP68		
-40 to 200°F (-40 to 93.3°C) 0 to 170°F (-17.8 to 76.7°C) ±0.015% FS/°F (±0.027% FS/°C) ±0.015% FS/°F (±0.027% FS/°C) ±1.0% FSO ±0.25% FSO/year 1000 M-ohms @ 50 Vdc			-13 to 185°F (-25 to 85°C) 14 to 131°F (-10 to 55°C) ±0.014% FS/°F (±0.025% FS/°C) ±0.006% FS/°F (±0.010% FS/°C) ±0.5% FSO ±0.5% FSO/year 100 M-ohms @ 250 Vdc			-40 to 200°F (-40 to 93.3°C) 0 to 170°F (-17.8 to 76.7°C) ±0.015% FS/°F (±0.027% FS/°C) ±0.015% FS/°F (±0.027% FS/°C) ±1.0% FSO ±0.25% FSO/year 1000 M-ohms @ 50 Vdc		
OUTPUTS			OUTPUTS			OUTPUTS		
4-20 mA (2-wire)			4-20 mA (2-wire)			4-20 mA (2-wire)		
0-5 Vdc (3-wire)			0-20 mA			0-5 Vdc (3-wire)		
0-10 Vdc output			1-5 Vdc output			.5 - 4.5 Vdc output		
8-38 Vdc A			11-40 Vdc A			8-38 Vdc A		
8-38 Vdc B			8-40 Vdc D			8-38 Vdc B		
16-38 Vdc K			11-40 Vdc G			5 Vdc J		
14-40 Vdc K			14-40 Vdc K					
ACCURACY			ACCURACY			ACCURACY		
0.25%			0.25%			0.50%		
0.10%						0.25%		
CODE			CODE			CODE		
3			3			2		
6						3		
PRESSURE RANGES			PRESSURE RANGES			PRESSURE RANGES		
-30" Hg -0 psi thru 0-1,000 psi			0-25 in. WC thru 0-200 psi			0-5 psi thru 0-500 ft. WC		
MODE			MODE			MODE		
Gage Pressure Ref. G			Gage Pressure Ref. G			Gage Pressure Ref. G		
Absolute Pressure Ref. A								
Vacuum Range V								
Compound Range C								
PROCESS CONN.			PROCESS CONN.			PROCESS CONN.		
2" Tri-Clamp 28			G1/4 w/316L SS Protective Cap when P ≥ 15 psi (0-50 ft. WC) 48			Flush Clog-Free Sensor (w/3" x 1" standoff) 36		
1-1/2" Tri-Clamp 27								
1" Tri-Clamp 26			G1/2 w/316L SS Protective Cap when P ≤ 10 psi (0-20 ft. WC) 49					
1/2" Tri-Clamp (0-60 psi & above) 24								
3/4" Tri-Clamp (0-60 psi & above) 25								
2-1/2" Tri-Clamp 29								
ELECTRICAL CONN.			ELECTRICAL CONN.			ELECTRICAL CONN.		
X' wire pigtail (NEMA 4X) A4XX			Vented cable X' C2XX			Submersible 1/2" NPT (M) conduit w/X' vented polyurethane cable G1XX		
1/2" NPT (M) conduit w/X' wire A6XX			Vented (Tefzel) ETFE cable X' A3XX			Submersible 1/2" NPT (M) conduit w/X' vented Tefzel cable G2XX		
Bendix 4-pin connector B100								
Bendix 6-pin connector B200								
Mini DIN 43650C conn. w/mate D100								

PRESSURE TRANSMITTERS

Tel-Tru pressure transmitters are accurate, robust, and built for long life; even in the harshest environments. Configure for your application with user selected modular design.

STANDARD MODELS >
Intrinsically Safe Models >

APPLICATIONS >

STANDARD SPECIFICATIONS >

Proof Pressure:

Burst Pressure:

Response Time:

Wetted Materials:

Protection Class:

Temperature Performance:

- Operating Temperature Range (OTR)
- Compensated Temperature Range (CTR)
- Temperature Effect on Zero over the CTR
- Temperature Effect on Span over the CTR

Zero and Span Balance:

Long-Term Stability:

Insulation Resistance:

**Tel-Tru
Pressure
Transmitters—**

**Accurate,
Robust, and
Built to Last!**



OTHER OPTIONS:

Ranges, process and electrical connections, and options are available upon request.

Please visit

www.teltru.com

for complete specifications and product information.

SUBMERSIBLE 400 SERIES			DIFFERENTIAL 500 SERIES		
Precision Grade Submersible			Precision Grade Differential		
					
P431			P521		
<ul style="list-style-type: none"> • Irrigation • Level and Depth Measurement • Underground Storage • Water Resource • Well Water • Coal Bed Methane 			<ul style="list-style-type: none"> • Hydraulics and Pneumatics • Laboratory and Test • Marine and Offshore • Petrochemical • Pumps and Compressors 		
STANDARD SPECIFICATIONS (see www.teltru.com for non-standard specs):					
2X FS			3X FSO		
5X FS			5X FS (3 kpsi max)		
<5 ms			<5 ms		
316 and 15-5 SS			316L SS		
IP68			NEMA 4X		
-40 to 200°F (-40 to 93.3°C)			-40 to 200°F (-40 to 93.3°C)		
0 to 170°F (-17.8 to 76.7°C)			0 to 170°F (-17.8 to 76.7°C)		
±0.015% FS/°F			±0.015% FS/°F		
(±0.027% FS/°C)			(±0.027% FS/°C)		
±0.015% FS/°F			±0.015% FS/°F		
(±0.027% FS/°C)			(±0.027% FS/°C)		
±1.0% FSO			±1.0% FSO		
±0.25% FSO/year			±0.25% FSO/year		
1000 M-ohms @ 50 Vdc			1000 M-ohms @ 50 Vdc		
OUTPUTS		SUPPLY	OUTPUTS		SUPPLY
4-20 mA (2-wire)	8-38 Vdc	A	4-20 mA (2-wire)	8-38 Vdc	A
0-5 Vdc (3-wire)	8-38 Vdc	B	0-5 Vdc (3-wire)	8-38 Vdc	B
.5 - 4.5 Vdc output	5 Vdc	J	1-2 mV/V (4-wire)	2-15 Vdc	C
			0-10 Vdc output	16-38 Vdc	K
ACCURACY		CODE	ACCURACY		CODE
0.25%		3	0.50%		2
0.10%		6	0.25%		3
			0.10%		6
PRESSURE RANGES			PRESSURE RANGES		
0-3 psi thru 0-1,500 ft. WC			0-30 psid thru 0-5,000 psid		
MODE		CODE	MODE		CODE
Gage Pressure Ref.		G	Gage Pressure Ref.		G
PROCESS CONN.		CODE	PROCESS CONN.		CODE
4/16-20 UNF (M)		15	1/4" NPT (F)		02
w/PVC cap (>15 psi)			1/4" NPT (M)		01
7/8-14 UNF (M)		20	1/8" NPT (F)		06
w/PVC cap (<15 psi)					
Stainless sludge nose	14				
Stainless steel cap		16			
ELECTRICAL CONN.		CODE	ELECTRICAL CONN.		CODE
Vented polyurethane cable X'		A2XX	X' wire pigtail (NEMA 4X)		A4XX
Vented Tefzel cable X'		A3XX	1/2" NPT (M) conduit w/X' wire		A6XX
			Bendix 6-pin connector		B200
			Mini DIN 43650C conn. w/mate		D100

TEL-TRU PRESSURE TRANSMITTERS

Range Table and How to Order

Additional ranges available.

HOW TO ORDER:

EXAMPLE: Precision Grade Threaded, 4-20 mA, 0.25% Accuracy, 0 to 100 psi, Gage Pressure, 1/4" NPT Male, 2 ft. Wire Pigtail (NEMA 4X). **PART NUMBER: P121A3D9AG-01A402**

MODEL OUTPUT ACCURACY RANGE MODE PROCESS CONN. ELECTRICAL CONN.
SELECT: P121 A 3 D9A G - 01 A402

RANGES	Unit	CODE	Threaded							Flush			Sanitary		Submersible			Diff.
			P11x	P121	P131	P141	P151	P161	P171	P21x	P221	P231	P31x	P321	P41x	P421	P431	
Vacuum																		
-30" Hg to 0	in. Hg	V1K	X	X		X					X			X	X			
Compound																		
-30" Hg to 15	psi	Z1A	X	X		X					X			X	X			
-30" Hg to 30	psi	Z2A	X	X		X					X			X	X			
-30" Hg to 60	psi	Z3A	X	X		X					X			X	X			
Pressure																		
0 to 3	psi	A8A		X		X									X			X
0 to 5	psi	B1A		X		X								X	X	X	X	
0 to 10	psi	B4A		X		X								X	X	X	X	
0 to 15	psi	B7A	X	X	X	X								X	X	X	X	X
0 to 25	psi	C4A		X	X	X									X			X
0 to 30	psi	C6A	X	X	X	X								X	X	X	X	X
0 to 50	psi	D4A		X	X	X									X	X	X	X
0 to 60	psi	D6A	X	X	X	X					X			X	X	X	X	X
0 to 100	psi	D9A	X	X	X	X						X	X	X	X	X	X	X
0 to 150	psi	E3A	X	X	X	X					X	X	X	X	X	X	X	X
0 to 200	psi	E5A	X	X	X	X						X	X	X	X	X	X	X
0 to 300	psi	E8A	X	X	X	X						X	X	X	X	X	X	X
0 to 500	psi	F3A		X	X	X							X	X		X	X	X
0 to 600	psi	F4A	X	X	X	X					X	X	X	X	X			
0 to 750	psi	F6A		X	X	X								X	X		X	X
0 to 1,000	psi	F8A	X	X	X	X								X	X	X	X	X
0 to 1,500	psi	H2A	X	X	X	X					X	X	X					X
0 to 2,000	psi	H5A	X	X	X	X						X	X					X
0 to 3,000	psi	H9A	X	X	X	X						X	X					X
0 to 4,000	psi	J4A	X	X	X	X						X	X					X
0 to 5,000	psi	J8A		X	X	X							X	X				X
0 to 6,000	psi	K1A	X	X	X	X					X	X	X					
0 to 7,500	psi	K2A		X	X	X						X	X					
0 to 9,000	psi	Q6A	X	X	X	X					X	X	X					
0 to 10,000	psi	K4A		X	X	X							X					
0 to 15,000	psi	K7A		X	X	X		X										
0 to 20,000	psi	K8A						X										
0 to 25,000	psi	L1A						X	X									
0 to 30,000	psi	L2A						X	X									
0 to 40,000	psi	L4A						X	X									
0 to 50,000	psi	L7A						X	X									
0 to 60,000	psi	L9A						X	X									
0 to 75,000	psi	Q1A							X									
0 to 100,000	psi	Q2A							X									
0 to 10	in. WC	B4P																
0 to 16	in. WC	B8P																
0 to 25	in. WC	C4P													X			
0 to 40	in. WC	D1P													X			
0 to 60	in. WC	D6P													X			
0 to 100	in. WC	D9P													X		X	
0 to 150	in. WC	E3P													X		X	
0 to 200	in. WC	E5P													X		X	
0 to 300	in. WC	E8P													X		X	
0 to 500	in. WC	F3P													X		X	
0 to 750	in. WC	F6P													X		X	
0 to 1,000	in. WC	F8P													X		X	
0 to 5	ft. WC	B1S																
0 to 10	ft. WC	B4S													X	X	X	
0 to 15	ft. WC	B7S													X	X		
0 to 20	ft. WC	C2S													X	X		
0 to 25	ft. WC	C4S													X	X		
0 to 50	ft. WC	D4S													X	X	X	